

#2

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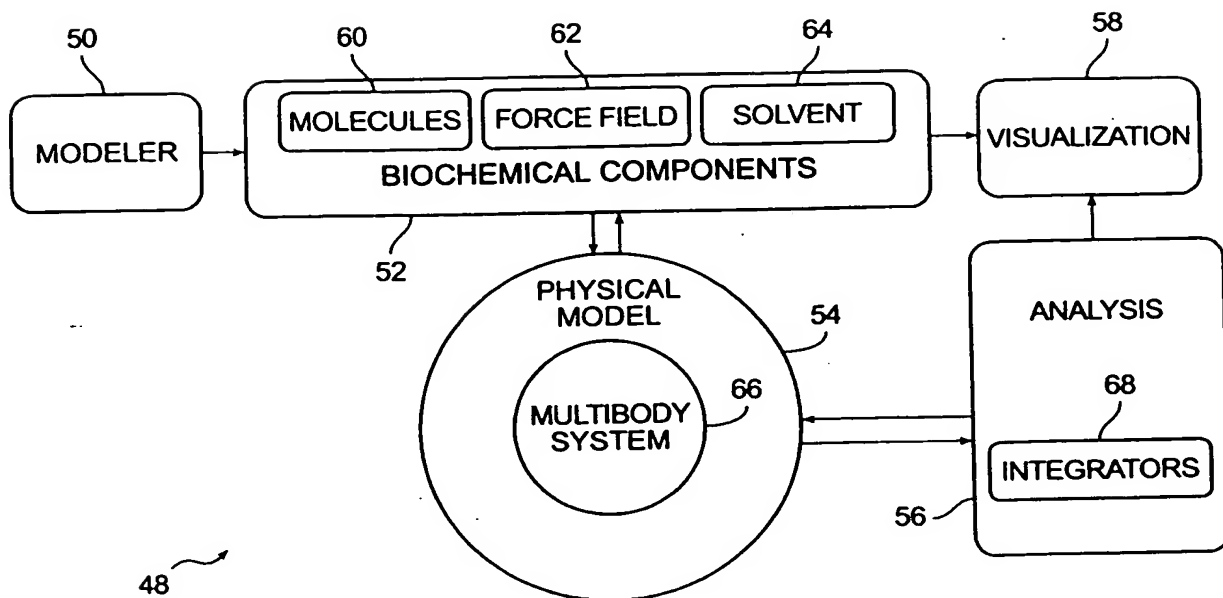


FIG. 1

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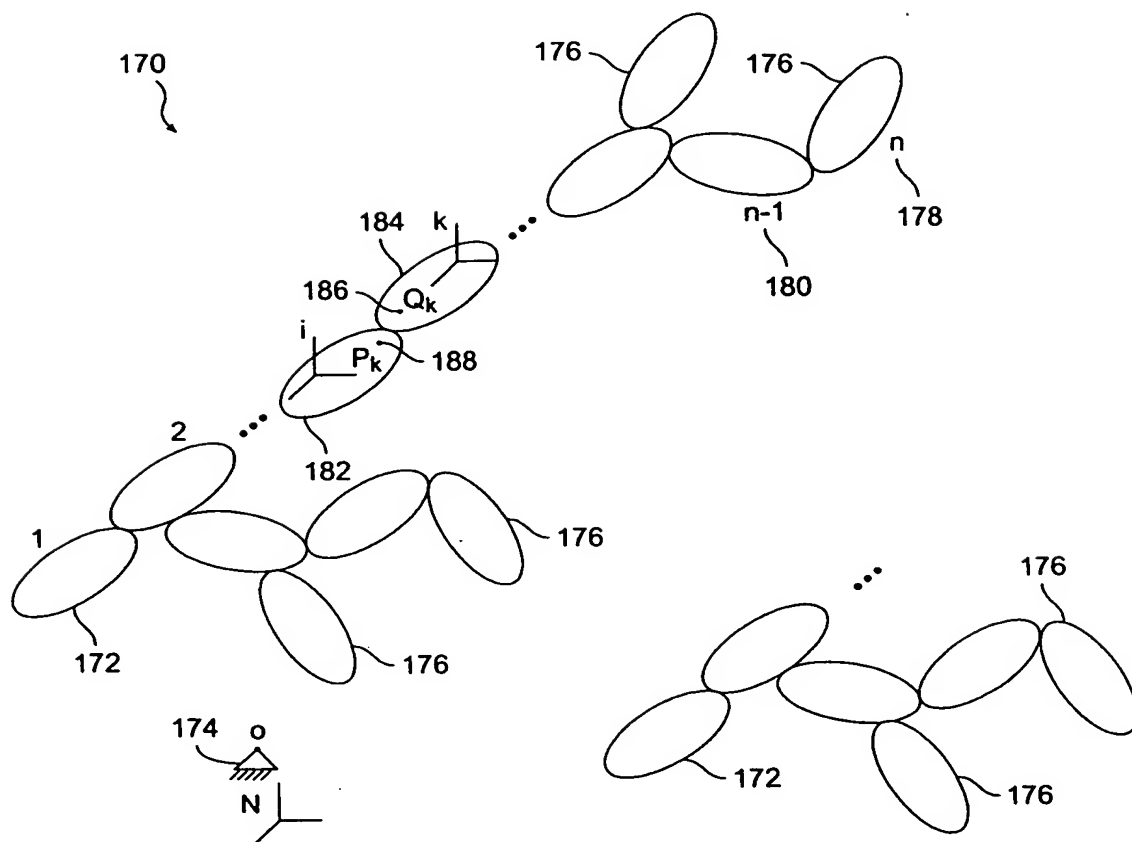
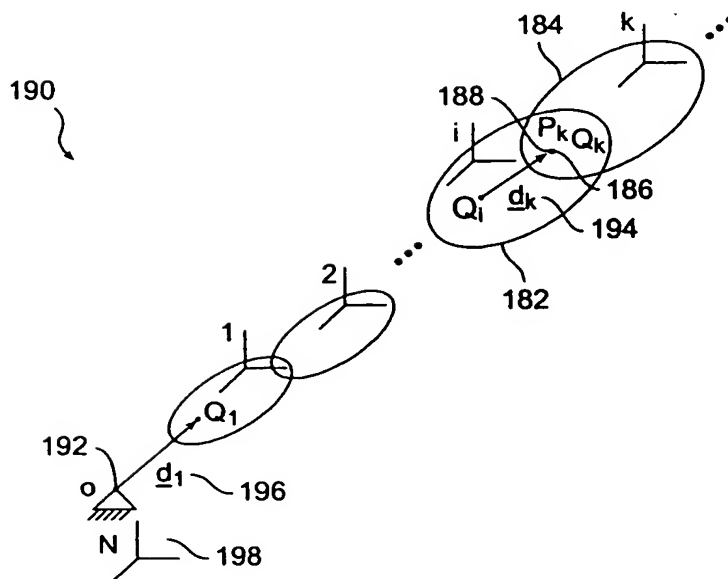


FIG. 2

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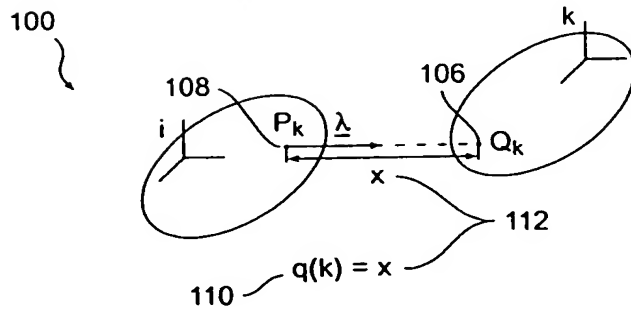


FIG. 4A

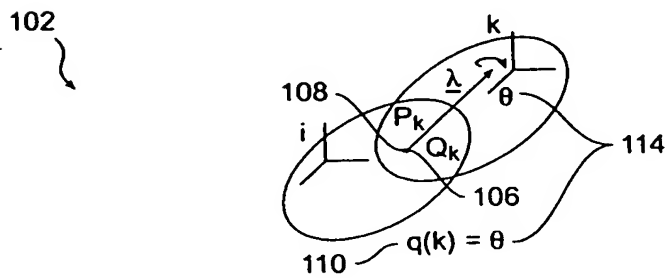


FIG. 4B

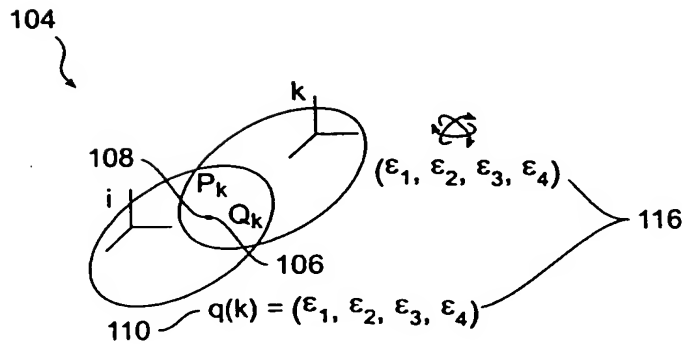
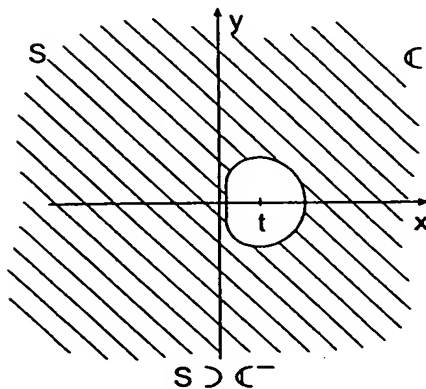


FIG. 4C

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IMPLICIT EULER

$$R(z) = \frac{1}{1-z}$$



$$\lim_{z \rightarrow \infty} R(z) = 0$$

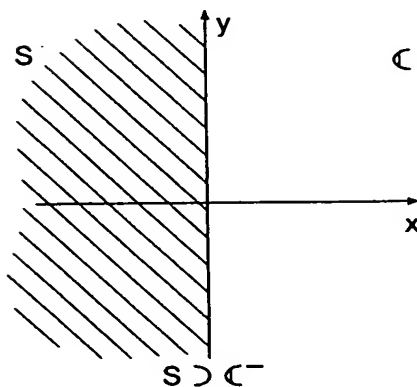
L-STABLE

A-STABLE

FIG. 5A

IMPLICIT MIDPOINT

$$R(z) = \frac{1 + z/2}{1 - z/2}$$



$$\lim_{z \rightarrow \infty} R(z) \neq 0$$

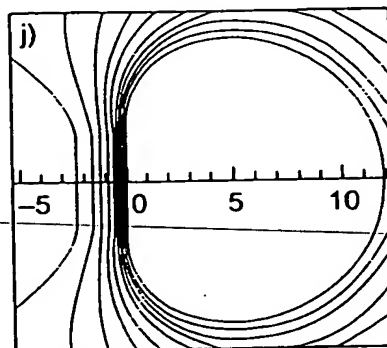
NOT L-STABLE

A-STABLE

FIG. 5B

RADAU5

$$R(z) = \frac{1 + 2z/5 + z^2/20}{1 - 3z/5 + 3z^2/20 - z^3/60}$$



$$\lim_{z \rightarrow \infty} R(z) = 0$$

L-STABLE

RADAU5

FIG. 5C

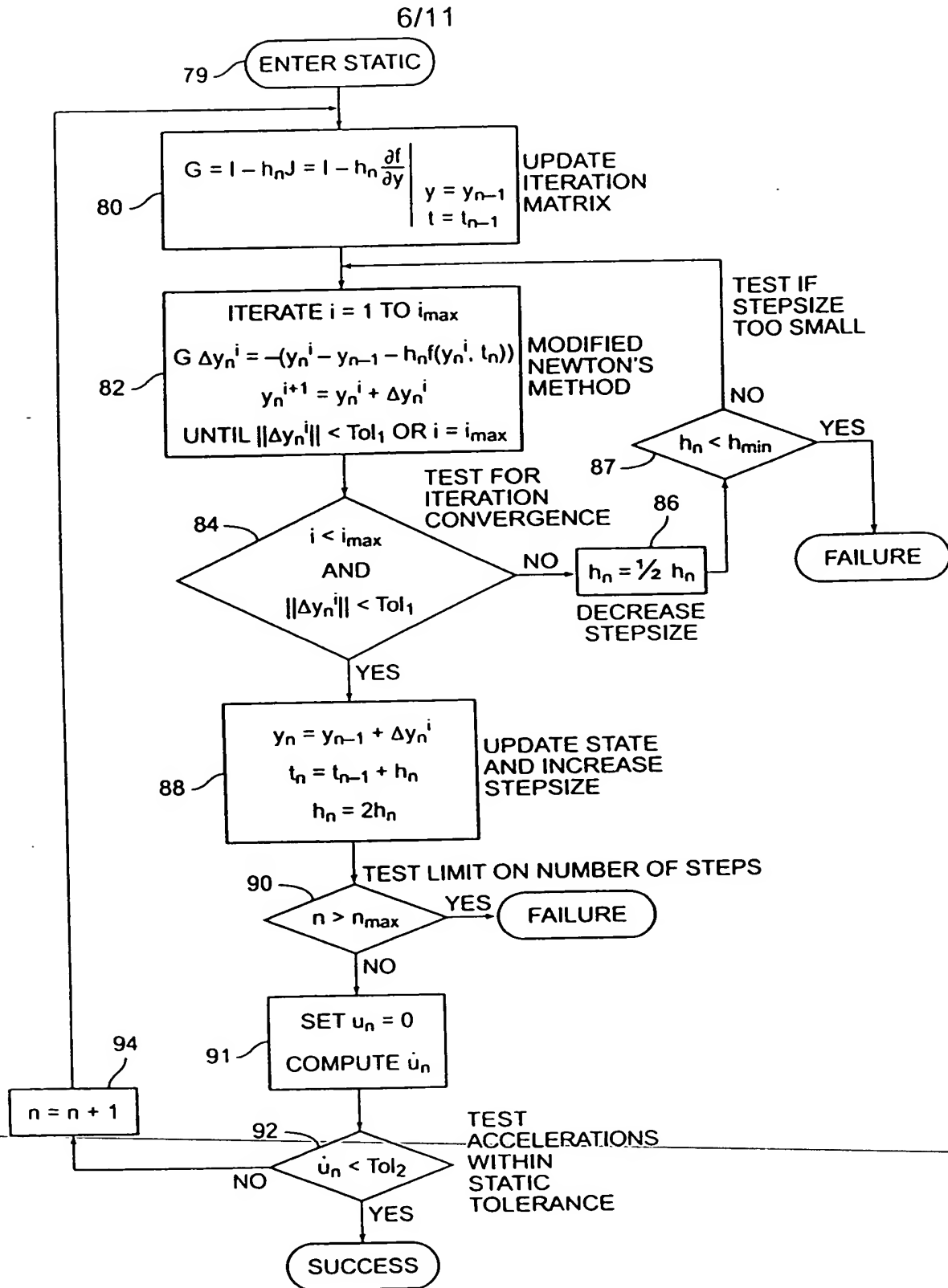


FIG. 6

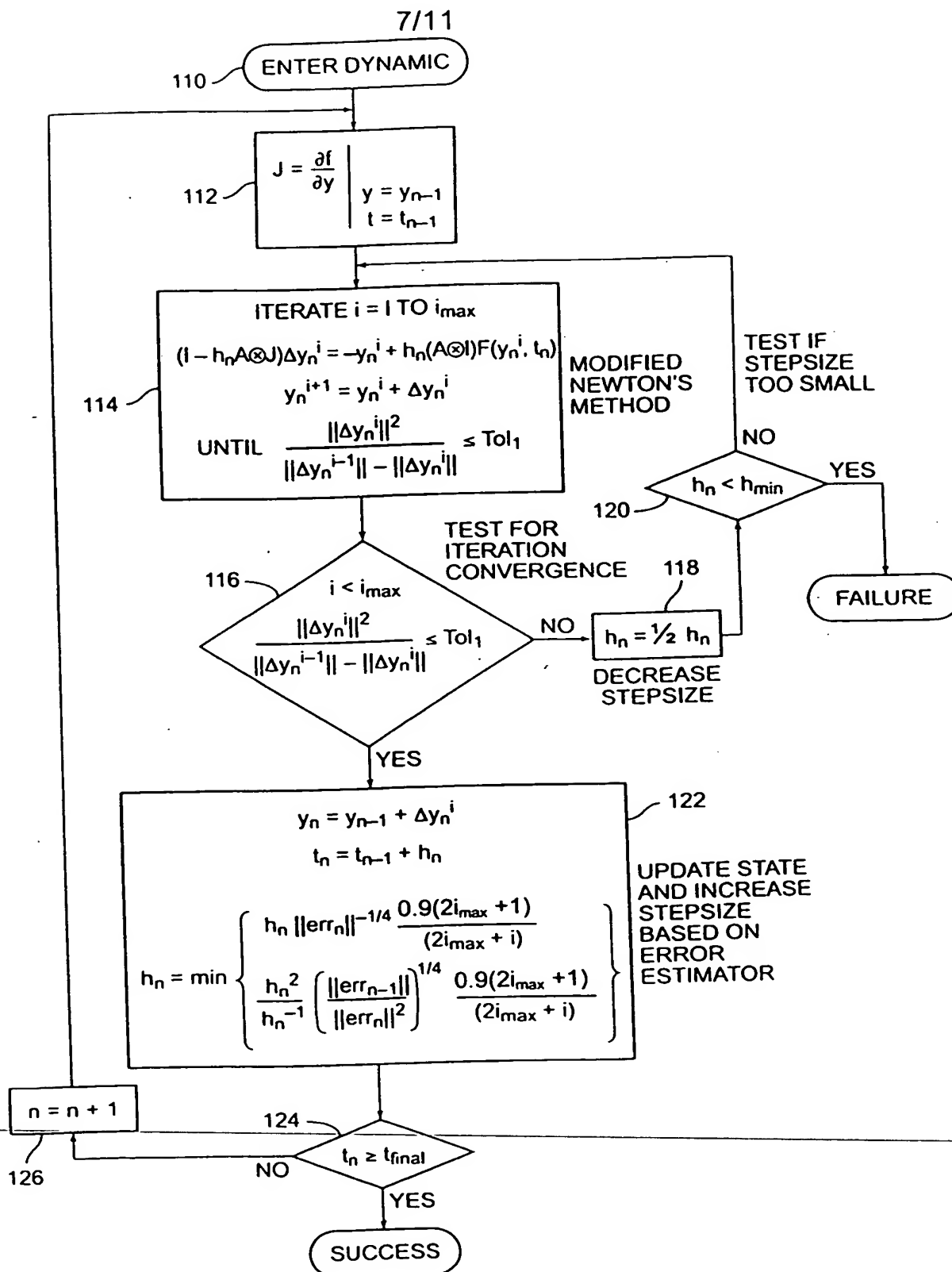


FIG. 7

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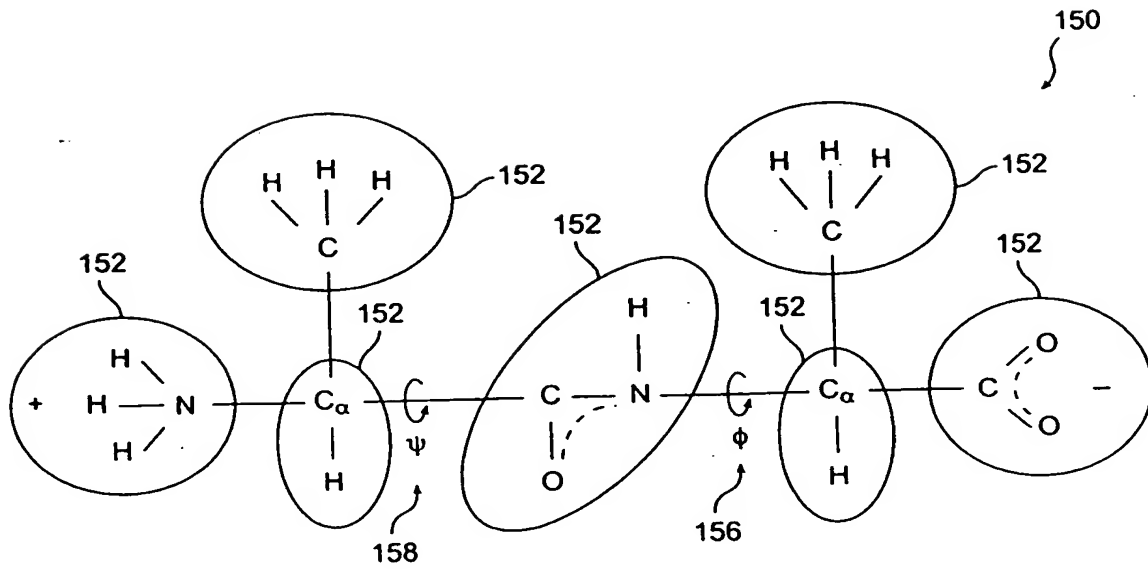


FIG. 8



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ANGULAR POSITION  
vs. CPU TIME

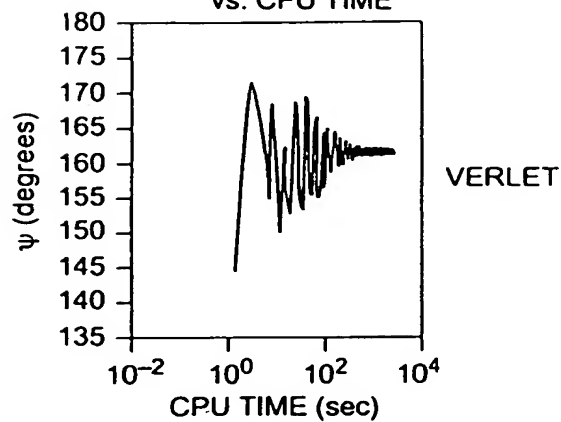


FIG. 9A

ANGULAR POSITION  
vs. CPU TIME

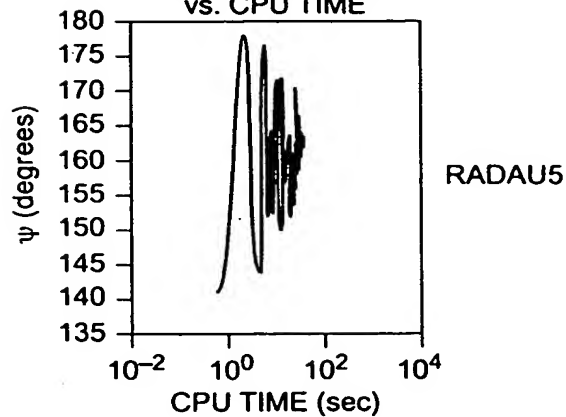


FIG. 9B

ANGULAR POSITION  
vs. CPU TIME

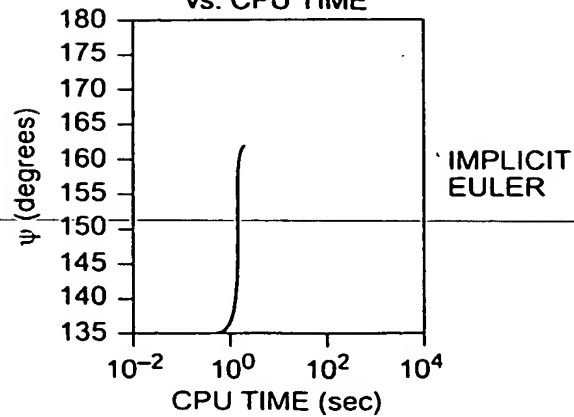


FIG. 9C

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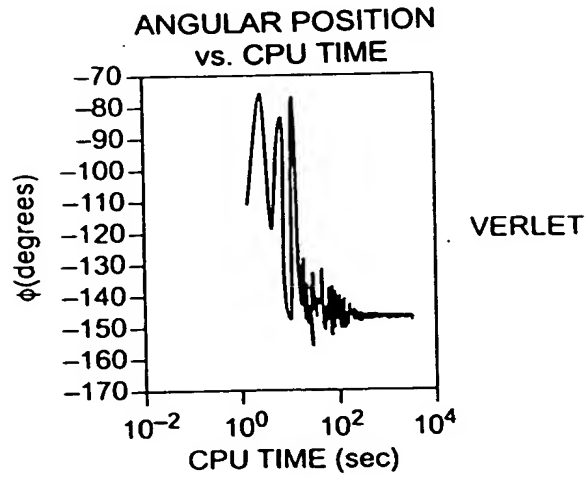


FIG. 9D

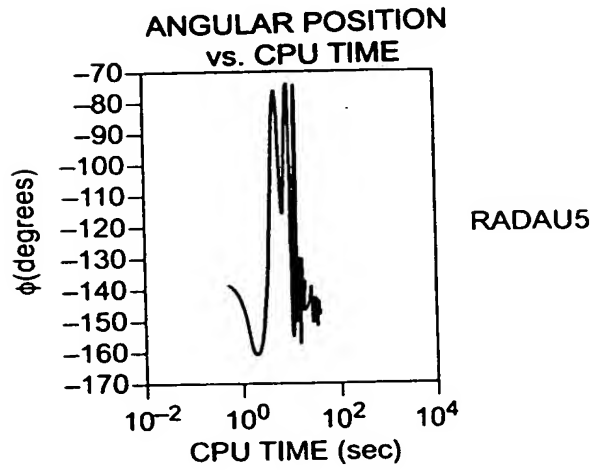


FIG. 9E

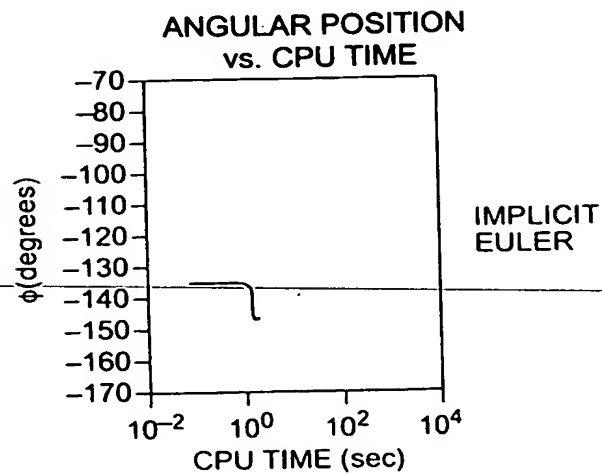


FIG. 9F

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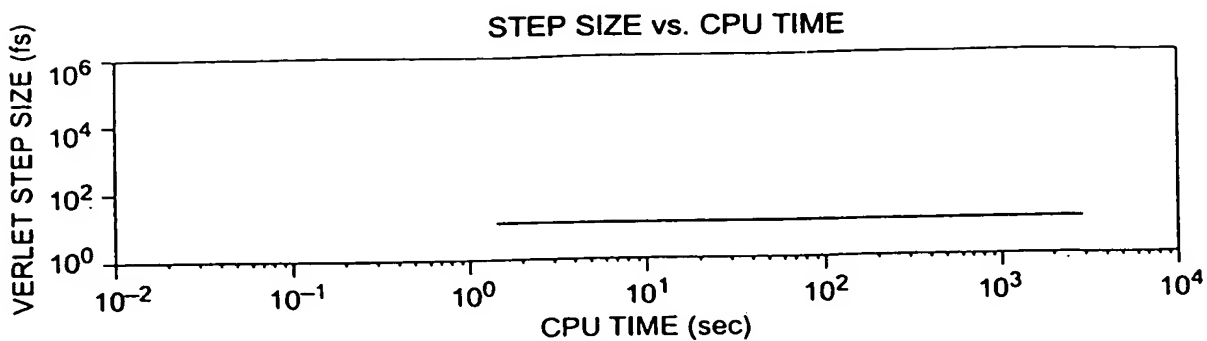


FIG. 10A

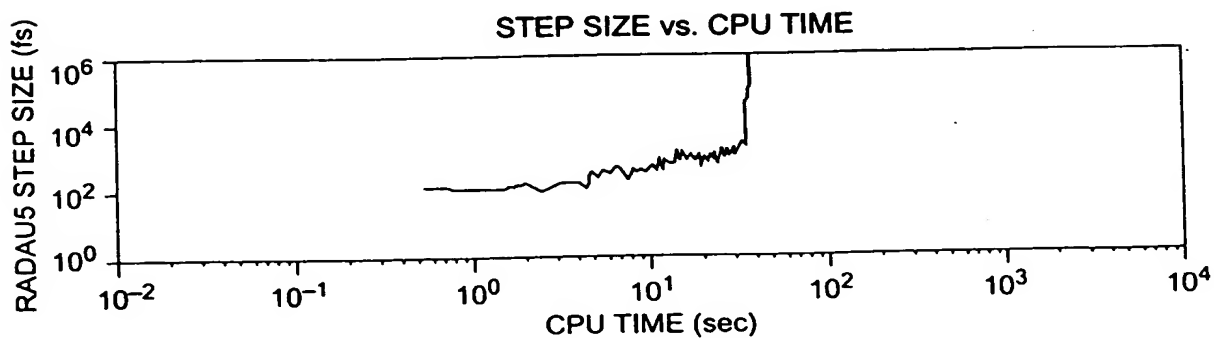


FIG. 10B

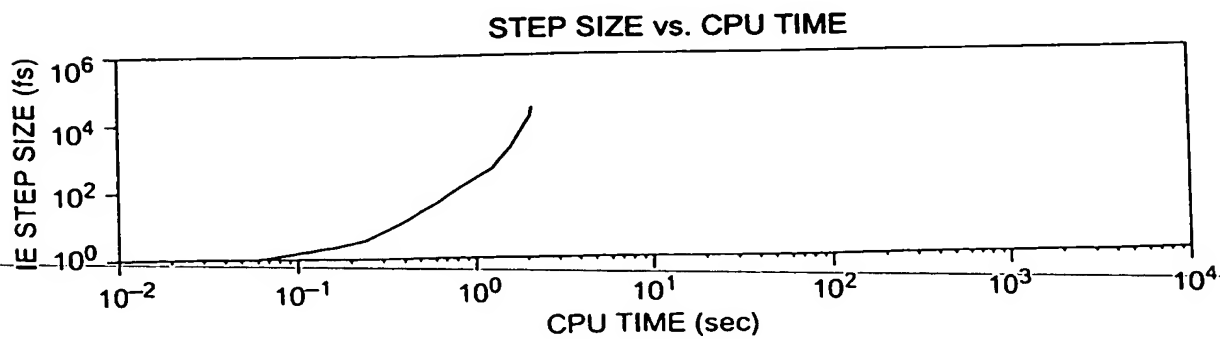


FIG. 10C